

1 1. A material distributing device comprising,
2 a hopper for carrying a load of material to be distributed,
3 a conveyor belt having paddles thereon for engaging and moving the material to
4 be distributed, the conveyor belt supported by a framework which is pivotally connected
5 to the hopper and engages the material in the hopper from the top of the material,
6 a drive mechanism attached to the conveyor belt for powering the conveyor belt
7 and removing the material from the hopper.

1 2. A material distributing device as in claim 1 wherein,
2 the hopper is supported on a trailer, and
3 the drive mechanism includes a trailer wheel having a sprocket, the sprocket
4 having a chain for transmitting power to a sprocket on a drive axel for turning the
5 conveyor belt such that as the drive wheel of the trailer turns when the trailer is moving
6 the conveyor belt moves at a rate proportional to the trailers speed to unload the material
7 in the hopper to distribute the load at a known rate.

1 3. A material distributing device as in claim 2 wherein,
2 a clutch attached to the sprocket on a drive axel for turning the conveyor belt
3 alternately engages the drive axel to distribute the material in the hopper at desired times.

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1 4. A material distributing device as in claim 2 wherein,
2 a gear shifting mechanism in conjunction with the sprocket on the drive wheel
3 and the sprocket on the drive axel for turning the conveyor belt changes the ratio of the
4 drive wheel speed to the conveyor belt speed for varying the rate of material distribution
5 from the hopper.

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1 5. A material distributing device as in claim 3 wherein,
2 a gear shifting mechanism in conjunction with the sprocket on the drive wheel
3 and the sprocket on the drive axel for turning the conveyor belt changes the ratio of the
4 drive wheel speed to the conveyor belt speed for varying the rate of material distribution
5 from the hopper.

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1 6. A material distributing device as in claim 3 wherein,
2 a drive motor drives the drive axel for turning the conveyor belt such that the
3 material can be unloaded from the hopper when the motor is on and unloads the hopper at
4 a rate directly proportional to the motor speed.

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1 7. A material distributing device as in claim 1 wherein,
2 a drive mechanism raises and lowers the conveyor belt support framework to
3 engage or disengage the conveyor belt from the material to be distributed and to aid in
4 loading the hopper with the conveyor out of the way.

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1 12. A material distributing device as in claim 6 wherein,

2 a drive mechanism raises and lowers the conveyor belt support framework to

3 engage or disengage the conveyor belt from the material to be distributed and to aid in

4 loading the hopper with the conveyor out of the way.

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